

Multiple Virtual Machine Environment Management System

Abstract of the Disclosure

An interrupt management system for a multiple virtual machine environment is disclosed. In a system concurrently running a plurality of independent virtual machines, each virtual machine has associated therewith a plurality of anticipated interrupt signal types. A plurality of interrupt signals can be received in such a system. The interrupt signal having the highest priority is determined and that interrupt can be serviced.

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Figures

Figure 1

(a) **Modeling of the system.** A schematic diagram showing a vertical column representing a system. The column is divided into several horizontal layers. The top layer is labeled "Input". Below it are three layers labeled "Hidden Layer 1", "Hidden Layer 2", and "Hidden Layer 3". The bottom layer is labeled "Output". Arrows indicate the flow of information from the input layer through the hidden layers to the output layer.

(b) **Simulation results.** A plot showing the output of the system over time. The x-axis is labeled "Time" and ranges from 0 to 100. The y-axis is labeled "Output" and ranges from -1 to 1. The plot shows a series of oscillations that start at approximately 0.5 and gradually decrease in amplitude towards zero. There are two sets of curves: one set is solid black lines, and the other set is dashed grey lines. The solid lines represent the actual system output, and the dashed lines represent the model's prediction.

(c) **Comparison of the model with the actual system.** A plot showing the difference between the model's prediction and the actual system output over time. The x-axis is labeled "Time" and ranges from 0 to 100. The y-axis is labeled "Error" and ranges from -0.2 to 0.2. The plot shows a single curve that starts at approximately 0.1 and decreases towards zero, indicating that the model's prediction becomes increasingly accurate over time.